

exemplary jet of coolant spray 980 to discharge and be directed toward the intermediate material medium 920 with the high absorbing substance. The cooling of the intermediate material medium also remove energy from the target material and thus the cooling of the both the intermediate material as well as the cooling of the target material is achieved.

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## Claims - I claim:

1. A method for the modification of a layer of a tissue comprising the steps of:

applying to a section of the tissue a substance having a high absorption of at least one frequency band of electromagnetic radiation

illuminating the covered section of the targeted tissue with electromagnetic radiation of said at least one frequency band of electromagnetic radiation, said radiation energy is thereby absorbed by the high absorption substance covering the target tissue surface and is thereby converted to thermal energy sufficient to bring about irreversible modification in the skin properties.

2. The method as in claim 1 wherein said high absorption substance is a suspension containing high absorbing particles of a dimension larger than 50 microns.

3. The method as in claim 1 wherein said high absorption substance is a suspension containing high absorbing particles of a dimension larger than 30 microns

4. The method as in claim 1 wherein said high absorption substance is a suspension containing high absorbing particles of a dimension larger than 0.1 microns

5. The method as in claim 1 wherein said high absorption substance is a thin film containing high absorbing particles

10. The method of claim 1 where said high absorption substance is a paper containing highly absorbing particles.

11. The method of claim 1 where said high absorption substance is a made of agar containing highly absorbing particles

12. The method of claim 1 where said high absorption substance is a mixture containing highly absorbing particles.

13. The method of claim 1 where said high absorption substance is a layer of thermal insulator containing highly absorbing particles.
14. The method of claim 1 where said high absorption substance is a layer of thermal conductor containing highly absorbing particles.
15. The method of claim 1 where said high absorption substance is a metallic layer containing highly absorbing particles.
16. The method of claim 1 wherein said high absorption substance is applied to a film of material on the side facing the energy source and not to the side which is in contact with the skin
17. The method of claim 1 wherein said high absorption substance is applied to a film of material on the side facing the energy source and not to the side which is in contact with the skin, and the film is made of thin layer allowing transmittal of at least some thermal energy to the target material
18. The method of claim 1 wherein said high absorption substance is applied to a film of material on the side facing the energy source and not to the side which is in contact with the target material, and, The film is made of thermally conducting material
19. The method of claim 1 wherein said high absorption substance is mixed with grains of conducting material to form a film of thermally conducting – optically absorbing mix.
20. The method as in claim 5 wherein said high absorption substance is deposited in a thin film containing high absorbing particles of density which assures that at least 80% of the light energy is intercepted and absorbed by the particles.

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